

December 2005 Update

Mystery Bridge Road at Highway 20 Superfund Site Casper, Wyoming (Review Date 9/30/04)

Highlights Since the 2004 5-Year Review

- **EPA is working with KM, DOW and the State of Wyoming to implement groundwater Institutional Controls.**

Brief Site History: The Mystery Bridge Road at Highway 20 Superfund Site is located in the Brookhurst and Mystery Bridge subdivisions in Natrona County one mile east of Evansville, Wyoming. Operators of the two areas of the superfund site have cleaned up soil and groundwater contamination as part of an agreement with the EPA and the State of Wyoming. One area of the site, the Kinder Morgan (formerly KN Energy) facility, is a natural-gas processing facility. An unlined waste pond on this area of the site was used from 1965 until 1984. The other area of the site, operated by Dow Chemical Company and Dowell Schlumberger, Inc. (DOW/DSI), was an oil field service area. This area stored volatile organic compounds, and had a truck wash drain and an abandoned sump.

Cleanup Activities Completed: Construction completion for the site was achieved on December 16, 1993. The following cleanup activities have been completed:

- Record of Decision in 1990 outlined site cleanup and several Administrative Orders addressed the cleanup of soil and groundwater contamination.
- Kinder Morgan completed soil removals and construction of a soil-vapor extraction and air-sparging systems.
- Kinder Morgan pumped and treated groundwater to clean up benzene, toluene, ethylbenzene and xylene contamination.
- Groundwater analysis in 1997 showed that the water met specified cleanup levels. EPA approved completion of cleanup action in August, 1997. Kinder Morgan and DOW/DSI continue quarterly groundwater monitoring.

Current Status: According to the data reviewed and the site inspection (6/29/04), the remedy is largely operating as intended by the ROD. Protectiveness currently is achieved through interruption of exposure pathways. Post-remedial low-level detections of contaminants above the performance goals were anticipated by the ROD as is re-evaluation of the remedy performance goals.

Summary of Protectiveness: The remedy as implemented is currently protective of human health and the environment. Contaminated groundwater remaining on the KMI and DOW/DSI facilities is not currently used. Groundwater contamination in residential areas has remained at or below the action levels for the last two monitoring events. A public water supply in the residential area minimizes the likelihood of human exposure to site contaminants. The protectiveness of the remedy will be further enhanced once institutional controls are implemented.

Issues Impacting Protectiveness: A few issues that do not immediately impact the protectiveness of the remedy were noted. The following table summarizes the status of the follow-up actions addressing these issues.

**Five-Year Review Update Table
(Review Date 9/30/2004)**

Issue	Recommendations/ Follow-up	Follow-up Actions (Status/ Due Date)	Status of Follow-up Actions 12/05	Resp. Party
1) Institutional Controls on groundwater use not implemented	Implement protocol in use at former Casper Amoco Refinery	Implement Institutional Controls.	Implementation of ICs anticipated December 2006.	WDEQ/PRP
2) Persistent but sporadic groundwater contamination above performance standards	Continue monitoring of groundwater quality trends.	Remediation of groundwater contaminant sources complete.	Groundwater monitoring continues.	PRP/EPA
3) Reoccurrence of Light Non-Aqueous Phase Liquid in multiple monitoring wells during period of low groundwater table	Continue monitoring of groundwater quality trends.	Remediation of groundwater contaminant sources complete.	Groundwater monitoring continues.	PRP/EPA